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NOTICE OF ALLOWANCE AND FEE(S) DUE

25944 7590 09/22/2009

OLIFF & BERRIDGE, PLC P.O. BOX 320850

ALEXANDRIA, VA 22320-4850

EXAMINER RHODES, JR. LEON W

PAPER NUMBER ARTHNIT

2862 DATE MAILED: 09/22/2009

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/589.354 08/11/2006 Hiroyuki Iwasaki 129064 8162

TITLE OF INVENTION: CAMERA SYSTEM WITH CURRENT AND DISCHARGE CONTROLLED ILLUMINATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/22/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

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							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/589,354 08/11/2006 TITLE OF INVENTION: CAMERA SYSTEM WITH CURRENT AND		VITH CURRENT AND I	Hiroyuki Iwasaki DISCHARGE CONTROLI	.ED ILLUMINATI	ON	129064	8162
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	12/22/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS]			
RHODES, J.	R, LEON W	2862	396-182000	•			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha B/122) attached. ication (or "Fee Address 22 or more recent) attach ND RESIDENCE DATA	nge of Correspondence "Indication form ted. Use of a Customer A TO BE PRINTED ON	2. For printing on the p (1) the names of up to or agents OR, alternati (2) the name of a singl registered attorney or : 2 registered patent atto listed, no name will be THE PATENT (print or ty) data will appear on the p	3 registered paten wely, e firm (having as a agent) and the name meys or agents. If a printed.	memb membes of u	era 2 p to se is 3	ocument has been filed for
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- 11	s SMALL ENTITY state	is. See 37 CFR 1.27.	☐ b. Applicant is no lon				
interest as shown by the	a Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	o from anyone other than to Office.	ne appucant; a regi	stered	morney or agent; or th	ne assignee or other party in
Authorized Signature			Date				
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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10/589,354	08/11/2006	Hiroyuki Iwasaki	129064	8162	
25944 75	90 09/22/2009		EXAM	IINER	
OLIFF & BERRIDGE, PLC			RHODES, JR, LEON W		
P.O. BOX 320850			ART UNIT	PAPER NUMBER	
ALEXANDRIA, VA 22320-4850			2862		

DATE MAILED: 09/22/2009

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 392 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 392 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)				
10/589,354	IWASAKI, HIROYUKI				
Examiner	Art Unit				
Loop W. Phodos	2862				

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-58) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office review abilities the coefficient. See 27 CEPT 423 and MEDIA.

- NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

 1. ☑ This communication is responsive to amendement and arauments filed.
- 2. X The allowed claim(s) is/are 1-11.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - - 1. Certified copies of the priority documents have been received.
 - Certified copies of the priority documents have been received in Application No.
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.34(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- Other _____.

Application/Control Number: 10/589,354 Page 2

Art Unit: 2862

DETAILED ACTION

Response to Amendment

The Title as amended by Applicant is descriptive of the claimed invention. The
objection outlined in the previous action is thus rendered moot and is withdrawn by the
Examiner.

Allowable Subject Matter

- Claims 1-11 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: The amended inclusion of the limitations which limit the illumination control device to activating only one or the other of the illumination devices in response to certain conditions (e.g. a single shot or continuous mode as in Claim 1 or the relationship of the shutter speed with the flash synchronization speed as in Claim 4) serves to completely rule out reasonably interpreting that a camera system which always triggers both flashes will meet the claimed limitations.
- 4. With particular regard to claim 1 and claims dependent thereupon: The prior art of record do not teach nor render obvious the selection between a discharge control type first illuminating device and a current controlled second illuminating device based on the photographing mode being a single-shot photographing mode or a continuous photographing mode. The prior art of record is not configured to only provide illumination from one or the other of a discharge or current-controlled illumination device. Kishimoto as shown in the operational flow charts of Figures 11 and 19 will

Application/Control Number: 10/589,354

Art Unit: 2862

always trigger the discharge-type illumination device (step #38). Examiner further wishes to note the reference JP2005-107240 A (Kyocera), cited by the international search report provided in the IDS dated 08/11/2006. While Kyocera does items of interest with both a LED and discharge illumination device, unlike the claimed invention Kyocera triggers both the discharge and current controlled illumination devices in the single-shot photographing mode (see paragraph [0049]). Finally, Kyocera is not available as prior art as it was published after the effective US Filing Date of 02/09/2005.

- 5. With regard to claim 4 and claims dependent thereupon: The prior art of record does not teach nor render obvious the limitation of the selection between a current controlled and discharge type illumination device based upon the relationship between the shutter speed and the first (discharge-type) illumination device synchronization speed. Matsui et al (US PGPub 2005/0265014 A1), for example, shows in Figure 8 the syncing of both discharge and current-based illumination devices to the shutter.
- 6. In relation to both claims 1 and 4, the use of current controlled and discharge controlled illumination devices in cameras is known in the art, see for example Voss et al (US PGPub 2005/0157205 A1) or Ikari et al (2004/0008274 A1). However, the prior art cameras use the two illumination devices in a distinctly different manner than is claimed in the instant application. In the prior art, the current controlled illumination device is used to provide subject illumination for motion picture capture while the discharge based illumination device is configured to provide illumination for still image capture (see Voss, paragraph [0004], and Ikari, paragraphs [0045-0046] and [0055]).

Art Unit: 2862

7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leon W. Rhodes whose telephone number is 571-270-5774. The examiner can normally be reached on Monday thru Thursday 07:00 thru 17:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Assouad can be reached on 571-272-2210. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/589,354 Page 5

Art Unit: 2862

/W.B. Perkey/ for Patrick Assouad, SPE of Art Unit 2862

/L. W. R./ Examiner, Art Unit 2862 September 9, 2009